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M2 Presswire. Coventry: May 2, 2000. p. 1

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- ☐ 2. **White Pine Marks Milestone in H.323 Conferencing With Continuous Presence and Streaming Media Integration; MeetingPoint 4.0 Ships to Bring Wide Spectrum of Business Benefits**  
Business Editors & Hi-Tech Writers. Business Wire. New York: Jul 6, 1999. p. 1

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- ☐ 3. **GeneSys Extends Imaging to DOS-Based Applications**  
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### Accession number & update

0007095964 20070101.

### Title

System-on-silicon solution for high quality **consumer** video processing-the next generation.

### Conference information

ICCE. International Conference on **Consumer** Electronics, Los Angeles, CA, USA, 19-21 June 2001.

### Source

IEEE Transactions on **Consumer** Electronics, {IEEE-Trans-Consum-Electron-USA}, Aug. 2001, vol. 47, no. 3, p. 412-19, 7 refs, CODEN: ITCEDA, ISSN: 0098-3063.  
 Publisher: IEEE, USA.

### Author(s)

Schu-M, Wendel-D, Tuschen-C, Hahn-M, Langenkamp-U.

### Author affiliation








Schu, M., Wendel, D., Tuschen, C., Hahn, M., Langenkamp, U., Micronas Munich GmbH, Germany.

### Abstract

This paper presents the next generation of a highly integrated low cost single-chip video processing

system-on-chip with outstanding feature content and performance. The IC unifies the complete processing chain between tuner output (CVBS) and RGB processing. It comprises an improved motion adaptive algorithm for high quality de-interlacing and up-conversion including a special cinematic source processing. Implemented are **picture-in-picture**, **split screen** and manifold **picture** manipulation and improvement capabilities as well as color decoding and all necessary A/D and D/A conversions. All field memories are realized on-chip and store a **picture** in 4:2:2 format up to SVGA resolution. The IC meets economical demands with increased functionality.

**Descriptors**

 CONSUMER-ELECTRONICS;  DECODING;  DIGITAL-SIGNAL-PROCESSING-CHIPS;  
 IMAGE-COLOUR-ANALYSIS;  IMAGE-MOTION-ANALYSIS;  INTEGRATED-CIRCUIT-LAYOUT;  
 VIDEO-SIGNAL-PROCESSING.

**Classification codes**

B1265F Microprocessors-and-microcomputers\*;  
B6135 Optical-image-and-video-signal-processing;  
B1265A Digital-circuit-design-modelling-and-testing;  
C5135 Digital-signal-processing-chips\*;  
C5260D Video-signal-processing;  
E3644 Electronics-industry\*.

**Keywords**

system-on-silicon-solution; **high-quality-consumer-video-processing**; highly-integrated-low-cost-single-chip-video-processing-; feature-content; tuner-output; RGB-processing; CVBS; motion-adaptive-algorithm; de-interlacing; up-conversion; cinematic-source-processing; **picture-in-picture**; **split-screen**; **manifold-picture-manipulation**; improvement-capabilities; color-decoding; A/D-conversion; D/A-conversion; field-memories; 4:2:2-format; SVGA-resolution.

**Treatment codes**

P Practical;  
T Theoretical-or-mathematical.

**Language**

English.

**Publication type**

Conference-paper; Journal-paper.

**Availability**

SICI: 0098-3063(200108)47:3L.412:SSSH; 1-D.  
CCCC: 0 7803 6622 0/2001/\$10.00.

**Digital object identifier**

10.1109/30.964128.

**Publication year**

2001.

**Publication date**

20010800.

**Edition**

2001046.

**Copyright statement**

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**Accession number & update**

0007055896 20070101.

**Title**

System-on-silicon solution for high quality **consumer** video processing-the next generation.

**Conference information**

ICCE. International Conference on **Consumer** Electronics, Los Angeles, CA, USA, 19-21 June 2001.

**Source**

ICCE. International Conference on **Consumer** Electronics (IEEE Cat. No.01CH37182), 2001, p. 94-5, 3 refs, pp. 361, ISBN: 0-7803-6622-0.  
Publisher: IEEE, Piscataway, NJ, USA.

**Author(s)**

Schu-M, Wendel-D, Tuschen-C, Hahn-M, Langenkamp-U.

**Abstract**

This paper presents the next generation of a highly integrated low cost single-chip video processing system-on-chip with outstanding feature content and performance. The IC/sup 3/ unites the complete processing chain between tuner output (CVBS) and RGB processing. It comprises a perfected motion adaptive algorithm for high quality de-interlacing and up-conversion including a special cinematic source processing, **picture-in-picture**, **split screen** and manifold **picture** manipulation and improvement capabilities are implemented as well as color decoding and all necessary A/D and D/A conversions. All field memories are realized on-chip with YUV4:2:2 color representation up to SVGA resolution. Manufactured in a 0.18 mum copper eDRAM technology, the IC meets economical demands with increased functionality.

**Descriptors**

☐ CONSUMER-ELECTRONICS; ☐ DECODING; ☐ DIGITAL-SIGNAL-PROCESSING-CHIPS;  
☐ DRAM-CHIPS; ☐ IMAGE-COLOUR-ANALYSIS; ☐ IMAGE-MOTION-ANALYSIS; ☐ IMAGE-REPRESENTATION; ☐ INTEGRATED-CIRCUIT-DESIGN; ☐ TELEVISION-RECEIVERS;  
☐ VIDEO-SIGNAL-PROCESSING.

**Classification codes**

B6420D Radio-and-television-receivers\*;  
B2570D CMOS-integrated-circuits;  
B1265F Microprocessors-and-microcomputers;  
B1265A Digital-circuit-design-modelling-and-testing;  
B2570A Semiconductor-integrated-circuit-design-layout-modelling-and-testing;  
B6135C Image-and-video-coding;  
E3644 Electronics-industry\*.

**Keywords**

system-on-silicon-solution; **high-quality-consumer-video-processing**; next-generation; single-chip-video-processing-system-on-chip; IC/sup-3 /; motion-adaptive-algorithm; high-quality-de-interlacing; up-conversion; cinematic-source-processing; **picture-in-picture**; **split- screen**; **manifold-picture-manipulation**; improvement-capabilities; color-decoding; A/D-conversion; D/A-conversion; YUV4:2:2-color-representation; SVGA-resolution; eDRAM-technology; functionality; 0.18-micron.

**Treatment codes**

I Theoretical-or-mathematical.

**Numerical indexing**

size: 1.8E-07 m.

**Language**

English.

**Publication type**

Conference-paper.

**Availability**

CCCC: 0 7803 6622 0/2001/\$10.00.

**Digital object identifier**

10.1109/ICCE.2001.935226.

**Publication year**

2001.

**Publication date**

20010000.

**Edition**

2001039.

**Copyright statement**

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**Inspec - 1898 to date (INZZ)**

**Accession number & update**

0006536179 20070101.

**Title**

High performance **picture-in-picture** (PIP) IC using embedded DRAM technology.

**Conference information**

1999 Digest of Technical Papers. International Conference on **Consumer** Electronics, Los Angeles, CA, USA, 22-24 June 1999.

Sponsor(s): **Consumer** Electron. Soc.

**Source**

1999 Digest of Technical Papers. International Conference on **Consumer** Electronics (Cat. No.99CH36277), 1999, p. 342-3, 0 refs, pp. 377, ISBN: 0-7803-5123-1.

Publisher: IEEE, Piscataway, NJ, USA.

**Author(s)**

[Brett-M, Wendel-D.](#)

**Author affiliation**

Brett, M., Wendel, D., Semicond. Group, Siemens AG, Munich, Germany.

**Abstract**

In the paper the next generation of a low cost, high performance single-chip **picture-in-picture** IC is presented. This chip will be produced in a 0.35  $\mu$ m eDRAM technology and integrates a digital multistandard color decoder, embedded DRAM, A/D and D/A converter and a data slicer for caption services. The paper deals with the digital video signal processing for color decoding with asynchronous sampling and the compensation of the skew. A new algorithm for a jointline-free true frame display is developed. The chip allows a smooth scaling from 1/81 to 1/4 of full **screen picture** size and implements a data compression algorithm for **split-screen** modes.

**Descriptors**

 [CMOS-DIGITAL-INTEGRATED-CIRCUITS](#);  [CONSUMER-ELECTRONICS](#);  [DECODING](#);  
 [DIGITAL-SIGNAL-PROCESSING-CHIPS](#);  [IMAGE-COLOUR-ANALYSIS](#);  [IMAGE-SAMPLING](#);  
 [TELEVISION-RECEIVERS](#);  [VIDEO-SIGNAL-PROCESSING](#).

**Classification codes**

[B1265F](#) Microprocessors-and-microcomputers\*;

[B2570D](#) CMOS-integrated-circuits;

[B6220M](#) Speech-and-video-codecs;

[B6420D](#) Radio-and-television-receivers;

[E3644](#) Electronics-industry\*.

**Keywords**

**high-performance-picture-in-picture-IC**; PIP-IC; embedded-DRAM- technology; digital-multistandard-color-decoder; A/D-converter; D/A-converter; data-slicer; caption-services; digital-video-signal-processing; color-decoding; asynchronous-sampling; compensation; skew; jointline-free-true-frame-display; smooth-scaling; data-compression-algorithm; **split-screen-modes**; 0.35-micron.

**Treatment codes**

P Practical.

**Numerical indexing**

size: 3.5E-07 m.

**Language**

English.

**Publication type**

[Conference-paper](#).

**Availability**

CCCC: 0 7803 5123 1/99/\$10.00.

**Digital object identifier**

10.1109/ICCE.1999.785391.

**Publication year**

1999.

**Publication date**

19990000.

**Edition**

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0006528645 20070101.

**Title**System on silicon-IC for motion compensated scan rate conversion, **picture-in-picture** processing, **split screen** applications and display processing.**Conference information**1999 Digest of Technical Papers. International Conference on **Consumer** Electronics, Los Angeles, CA, USA, 22-24 June 1999.Sponsor(s): **Consumer** Electron. Soc.**Source**1999 Digest of Technical Papers. International Conference on **Consumer** Electronics (Cat. No.99CH36277), 1999, p. 172-3, 5 refs, pp. 377, ISBN: 0-7803-5123-1.

Publisher: IEEE, Piscataway, NJ, USA.

**Author(s)**Schu-M, Scheffler-G, Tuschen-C, Stolze-A.**Author affiliation**

Schu, M., Scheffler, G., Tuschen, C., Stolze, A., Semicond Group, Siemens AG, Munich, Germany.

**Abstract**

An IC for **consumer** electronics TV sets performing 100 Hz interlaced/60 Hz progressive scan rate conversion has been designed. **Picture-in- picture, split screen** and **picture** improvement capabilities are also integrated. It applies a motion-compensating algorithm for high-quality scan rate conversion. PIP processing is done using a full frame based scan rate conversion method. **Split screen** applications with two asynchronous input sources are supported. All field memories are included using a high performance embedded DRAM technology. Therefore the IC, which is compatible with current TV concepts, meets economical demands with increased functionality.

**Descriptors**

CONSUMER-ELECTRONICS; DIGITAL-SIGNAL-PROCESSING-CHIPS; MOTION-COMPENSATION; TELEVISION-RECEIVERS; TELEVISION-STANDARDS; VIDEO-SIGNAL-PROCESSING.

**Classification codes**

B6420D Radio-and-television-receivers\*;  
B1265F Microprocessors-and-microcomputers;  
B6135 Optical-image-and-video-signal-processing;  
E3644 Electronics-industry\*.

**Keywords**

system-on-silicon-IC; motion-compensated-scan-rate-conversion; **picture-in-picture-processing**; **split-screen-applications**; display- processing; **consumer-electronics-TV-sets**; PIP; asynchronous-input-sources; field-memories; high-performance-embedded-DRAM; functionality; 60-Hz; 100-Hz.

**Treatment codes**P Practical.**Numerical indexing**

frequency: 6.0E01 Hz.  
frequency: 1.0E02 Hz.

**Language**

English.



**Publication type**Conference-paper.**Availability**

CCCC: 0 7803 5123 1/99/\$10.00.

**Digital object identifier**

10.1109/ICCE.1999.785218.

**Publication year**

1999.

**Publication date**

19990000.

**Edition**

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0006379205 20070101.










**Title**System on silicon-IC for motion compensated scan rate conversion **picture-in-picture** processing, **split screen** applications and display processing.**Conference information**International Conference on **Consumer** Electronics, Los Angeles, CA, USA, 22-24 June 1999.**Source**IEEE Transactions on **Consumer** Electronics, {IEEE-Trans-Consum-Electron-USA}, Aug. 1999, vol. 45, no. 3, p. 842-50, 7 refs, CODEN: ITCEDA, ISSN: 0098-3063.  
Publisher: IEEE, USA.**Author(s)**Schu-M, Scheffler-G, Tuschen-C, Stolze-A.**Author affiliation**

Schu, M., Scheffler, G., Tuschen, C., Stolze, A., Infineon Technol. AG i Gr., Munich, Germany.

**Abstract**

An IC (available commercially as the SDA9410) for **consumer** electronics TV sets performing 100 Hz interlaced/60 Hz progressive scan rate conversion has been designed. **Picture-in-picture** (PIP), **split screen** and **picture** improvement capabilities are also integrated. It applies a motion compensating algorithm for high-quality scan rate conversion. The PIP processing is performed using a full frame based scan rate conversion method. **Split screen** and **multi-picture** applications with two asynchronous input sources are supported. All field memories are included using a high performance embedded DRAM technology. Therefore the IC, which is compatible with current TV concepts, meets economical demands with increased functionality.

**Descriptors**

 CONSUMER-ELECTRONICS;  DIGITAL-SIGNAL-PROCESSING-CHIPS;  DRAM-CHIPS;  
 MONOLITHIC-INTEGRATED-CIRCUITS;  MOTION-COMPENSATION;  MOTION-ESTIMATION;  
 SILICON;  TELEVISION-RECEIVERS;  VIDEO-SIGNAL-PROCESSING.

**Classification codes**

B1265F Microprocessors-and-microcomputers\*;  
B2570 Semiconductor-integrated-circuits;  
B1265D Memory-circuits;  
B6420D Radio-and-television-receivers;

B6135 Optical-image-and-video-signal-processing;  
C5260D Video-signal-processing\*;  
C5135 Digital-signal-processing-chips;  
C5320G Semiconductor-storage;  
E3644 Electronics-industry\*.

**Keywords**

system-on-silicon-IC; motion-compensated-scan-rate-conversion; **picture-in-picture-processing;**  
**split-screen-applications;** display- processing; **picture-improvement;** motion-compensating-  
algorithm; full-frame-method; asynchronous-input-sources; field-memories; high-performance-  
embedded-DRAM; **video-image-quality;** **consumer-TV-sets;** video-signal-processing-algorithms;  
motion-estimation; 100-Hz; 60-Hz; 0.35-micron; Si.

**Treatment codes**

A Application;  
P Practical;  
X Experimental.

**Numerical indexing**

frequency: 1.0E02 Hz.  
frequency: 6.0E01 Hz.  
size: 3.5E-07 m.

**Chemical indexing**

Si-int, Si-el.

**Language**

English.

**Publication type**

Conference-paper; Journal-paper.

**Availability**

SICI: 0098-3063(199908)45:3L;842:SSMC; 1-1.  
CCCC: 0098-3063/99/\$10.00.

**Digital object identifier**

10.1109/30.793620.

**Publication year**

1999.

**Publication date**

19990800.

**Edition**

1999041.

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**Accession number & update**

0006056787 20070101.

**Title**

Integrating textual and pictorial information via pop-up windows: an experimental study.

**Source**

Behaviour and Information Technology, {Behav-Inf-Technol-UK}, Sept.-Oct. 1998, vol. 17, no. 5, p.  
263-73, 24 refs, CODEN: BEITD5, ISSN: 0144-929X.  
Publisher: Taylor & Francis, UK.

**Author(s)**

Betrancourt-M, Bisseret-A.




**Author affiliation**

Betrancourt, M., Bisseret, A., Inst. Nat. de Recherche en Inf. et Autom., Montbonnot St. Martin, France.

**Abstract**

Following previous research in cognitive psychology, this paper deals with the effect of the spatial display of **text-picture** information on the **user's** cognitive processes. Two experiments were carried out to compare three displays on a computer **screen**: **split** display (text and **picture** information displayed in separate areas on the **screen**), integrated display (text information close to the part of the **picture** to which it refers), and pop-up display (text information integrated in pop-up fields which appeared only via the **user's** action). In both experiments, the results showed that the integrated display and to a greater extent the pop-up display led to higher performance for an equal or lower learning time. Thus, these experiments reinforce the hypothesis that material where text and **picture** are integrated improves learning, especially if text information appears in pop-up fields. Results are discussed from a theoretical and a practical point of view.

**Descriptors**

 HUMAN-FACTORS;  PSYCHOLOGY;  USER-INTERFACES.

**Classification codes**

C6180 User-interfaces\*;

E1410 Ergonomics\*.

**Keywords**

textual-information; pictorial-information; pop-up-windows; experimental-study; cognitive-psychology; spatial-display; cognitive-process; **computer-screen**; **split-display**; integrated-display; performance; learning-time.

**Treatment codes**

P Practical;

X Experimental.

**Language**

English.

**Publication type**

Journal-paper.

**Availability**

SICI: 0144-929X(199809/10)17:5L:263:ITPI; 1-R.

CCCC: 0144-929X/98/\$12.00.

**Publication year**

1998.

**Publication date**

19980900.

**Edition**

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0005364550 20070101.

**Title**

New hardware and software for stereo graphics and video.

**Conference information**

Stereoscopic Displays and Virtual Reality Systems III, San Jose, CA, USA, 30 Jan.-2 Feb. 1996.

Sponsor(s): SPIE; Soc. **Imaging** Sci. & Technol.

**Source**

Proceedings of the SPIE - The International Society for Optical Engineering, {Proc-SPIE-Int-Soc-Opt-Eng-USA}, 1996, vol. 2653, p. 201-9, 6 refs, CODEN: PSISDG, ISSN: 0277-786X.  
Publisher: SPIE-Int. Soc. Opt. Eng, USA.

**Author(s)**

Starks-M.

**Author affiliation**

Starks, M., 3DTV Corp., San Rafael, CA, USA.

**Abstract**

3DTV Corporation has a variety of new products for stereoscopic computer graphics and video. There are inexpensive kits for frame sequential graphics on virtually every computer platform. A system for IBM PC compatibles has a 3DROM with games, animations, **photos**, tools, information, and a **user** configurable interface for parallel or serial ports with passthrough, status LED's and a jack for 3 new varieties of LCD shutter glasses. The StereoSpace Model 1 is a universal interface for LCD glasses with LED frequency display, VGA, parallel and serial input, sync pulse insertion for the above/below format, buttons for **image** adjustment and polarity reversal and ability to be computer controlled from Windows or other operating environments. Model O is another universal interface that uses optical indicia on the **screen** to trigger glasses. The SpaceCam is a twin lens microprocessor controlled video camera with synced zoom and convergence. The SpaceBar offers manual or computer control of two cameras. The improved Model 200 StereoMultiplexer offers **split screen** modes and DB25 or BNC breakouts for making field sequential stereo with any two cameras. The Space Station can convert NTSC or PAL 3D video in composite, YC or RGB from nearly any format into separate R and L channels or into nearly any frequency field sequential RGB or NTSC. It can multiplex or demultiplex top/bottom, side by side or field sequential video with parallax shifts, color correction and field delays. It is finding use in perceptual research and in 3D video theaters with 1 or 2 projectors. The SpaceScanner converts field sequential stereo between PAL and NTSC. The StereoPlate Models 1 and 2 polarize light for 3D viewing with passive glasses and can fit 3 tube projectors or 17 inch monitors. For low end applications the SpaceSpex process gives full color anaglyphs with inexpensive glasses.

**Descriptors**

COMPUTER-ANIMATION; COMPUTER-GRAPHIC-EQUIPMENT; COMPUTER-GRAPHICS;  
DIGITAL-TELEVISION; GRAPHICAL-USER-INTERFACES; STEREO-IMAGE-PROCESSING;  
THREE-DIMENSIONAL-DISPLAYS; THREE-DIMENSIONAL-TELEVISION;  
VIDEO-CAMERAS.

**Classification codes**

B7260 Display-technology\*;  
B6140C Optical-information-image-and-video-signal-processing;  
B6430 Television-equipment-systems-and-applications;  
C5540 Terminals-and-graphic-displays\*;  
C6130B Graphics-techniques;  
C6180G Graphical-user-interfaces;  
C5260B Computer-vision-and-image-processing-techniques.

**Keywords**

stereoscopic-computer-graphics; frame-sequential-graphics; IBM-PC-compatibles; 3DROM; **user-configurable-interface**; StereoSpace-Model-1; universal-interface; LCD-shutter-glasses; LED-frequency-display; VGA; serial-input; parallel-input; sync-pulse-insertion; computer-controlled; SpaceCam; twin-lens-microprocessor-controlled; video-camera; SpaceBar; Model-200-StereoMultiplexer; **split-screen-modes**; SpaceStation; 3D-TV; hardware; software; SpaceScanner; StereoPlate; 3D-viewing; SpaceSpex-process; digital-video.

**Treatment codes**

P Practical;  
R Product-review.

**Language**

English.

**Publication type**

Conference-paper; Journal-paper.

**Availability**

SICI: 0277-786X(1996)2653L:201:HSSG; 1-6.  
CCCC: 0 8194 2027 1/96/\$6.00.

**Publication year**

1996.

**Publication date**

19960000.

**Edition**

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0004041054 20070101.

**Title**

Teleconference system (VisuaLinks AD series).

**Source**

NEC Technical Journal, {NEC-Tech-J-Japan}, Aug. 1991, vol. 44, no. 6, p. 10-18, 2 refs, CODEN: NECGEZ, ISSN: 0285-4139, Japan.

**Author(s)**[Onaka-T](#), [Matsumura-N](#), [Mano-K](#), [Sasada-T](#), [Ii-H](#), [Sasaki-K](#), [Ishii-T](#), [Arakaki-T](#), [Ikeda-S](#).**Author affiliation**

Onaka, T., Matsumura, N., Mano, K., Sasada, T., Ii, H., Sasaki, K., Ishii, T., Arakaki, T., Ikeda, S., NEC Corp., Tokyo, Japan.

**Abstract**

NEC's teleconference system (VisuaLinks AD series) comprises the Visua Link 5000 codec (VL 5000) which conforms to the latest CCITT recommendation H.261, teleconference controller (TC 5000), and teleconference terminal (TV 5000). The VL 5000 provides a number of **user** selectable data rates ranging from 64 kbps to 2 Mbps in 64 kbps steps. The VisuaLinks AD series can provide the TC 5000 teleconference controller with a camera control interface, echo canceller function, **picture-in-picture** function, **split screen**, field multiplex mode for two **full-screen images**, **still-picture** graphics transmission, talker select and additional video inputs. The TV 5000 consists of cameras, monitors, microphones, speakers and a system rack.

**Descriptors**[E CODECS](#); [E TELECOMMUNICATIONS-CONTROL](#); [E TELECONFERENCING](#); [E VIDEO-EQUIPMENT](#).**Classification codes**[B6210P Teleconferencing\\*](#);  
[B6220 Stations-and-subscriber-equipment](#);  
[B6430 Television-equipment-systems-and-applications](#);  
[C3370J Control-applications-in-television\\*](#).**Keywords**NEC; video-equipment; VisuaLinks-AD-series; VisuaLink-5000-codec; VL-5000; CCITT-recommendation-H.261; teleconference-controller; TC-5000; teleconference-terminal; TV-5000; data-rates; camera-control-interface; echo-canceller; **picture-in-picture-function**; **split-screen**; field-multiplex-mode; **still-picture-graphics-transmission**; talker-select; video-inputs; cameras; monitors; microphones; speakers; 64-kbit/s-to-2-Mbit/s.**Treatment codes**[P Practical](#);  
[R Product-review](#).**Numerical indexing**

bit rate: 6.4E04 to 2.0E06 bit/s.

**Language**

Japanese.

**Publication type**Journal-paper.**Publication year**

1991.

**Publication date**

19910800.

**Edition**

1992003.

**Copyright statement**

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0003446500 20070101.

**Title**Advances in high-resolution **image** simulation.**Conference information****Image** and Signal Processing in Electron Microscopy, 6th Pfefferkorn Conference, Niagara Falls, Ont., Canada, 28 April-2 May 1987.**Source**




Scanning Microscopy, {Scanning-Microsc-USA}, 1988, no. 2, p. 225-44, 23 refs, CODEN: SCMIEU, ISSN: 0891-7035, USA.

**Author(s)**O-Keefe-M-A, Kilaas-R.**Author affiliation**

O'Keefe, M.A., Kilaas, R., Nat. Center for Electron Microsc., Lawrence Berkeley Lab., California Univ., CA, USA.

**Abstract**

Continuing advances in hardware and software have improved both the speed and the range of computations that can be made to simulate high resolution electron microscope **images** from various structures. Use of **image** display systems and array processors has made the procedure much more interactive while laser printers provide a fast high-quality hard copy output. Use of array processors has enabled the rewriting of electron scattering algorithms to include convergence effects (previously considered only after the scattered electron beams had emerged from the specimen) and upper-layer-line effects. With an array processor it is faster to compute the effects of spatial and temporal coherence in real space, rather than use approximate solutions derived from series expansion in reciprocal space. With a frame buffer and suitable software the **user** has the facility to change parameters and view the results of the change almost immediately. Selected **images** can then be directed to hard copy output, in contrast with batch methods. Given a microdensitometer for input of experimental **images** from plates, or a video camera attached to the electron microscope and a frame buffer, **split screen** comparisons between experimental and computed **images** are possible, including independent control of **image** contrast, magnification and orientation.

**Descriptors** COMPUTERISED-PICTURE-PROCESSING;  DIGITAL-SIMULATION;  ELECTRON-MICROSCOPY.**Classification codes**A0780 Electron-and-ion-microscopes-and-techniques\*;  
A0650M Computing-devices-and-techniques.**Keywords****image-simulation; high-resolution-electron-microscope-images; image- display-systems;**

array-processors; electron-scattering-algorithms; convergence-effects; upper-layer-line-effects; frame-buffer; software; microdensitometer; video-camera; **split-screen-comparisons**; **image**- contrast; magnification; orientation.

**Treatment codes**

G General-or-review;

P Practical;

T Theoretical-or-mathematical.

**Language**

English.

**Publication type**

Conference-paper; Journal-paper.

**Availability**

CCCC: 0892-953X/88/\$3.00+.00.

**Publication year**

1988.

**Publication date**

19880000.

**Edition**

1989019.

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**Inspec - 1998 to date (INZZ)**

**Accession number & update**

0003377889 20070101.

**Title**

Multipoint teleconferences-investigations into uses, with different variations.

**Source**

NTZ, {NTZ-West-Germany}, Jan. 1989, vol. 42, no. 1, p. 8-12, 14 refs, CODEN: NNTZDZ, ISSN: 0027-707X, West Germany.

**Author(s)**

Muhlbach-L, Arif-M, Hopf-K, Romahn-G.

**Author affiliation**

Muhlbach, L., Arif, M., Hopf, K., Romahn, G., Heinrich Hertz Inst., Berlin, West Germany.

**Abstract**

The cost of providing a multipoint conference system can be very expensive as compared with the old telephone conference. To minimise these costs, investigations on comparative systems were carried out at the Berlin Heinrich-Hertz Institute. The five conference variations were: (1) sound only, enhanced by 'pseudo-stereo' to help identify the source origin (used in all variants); (2) still **picture** (TV quality), including **split-screen** production from all partner stations; (3) single moving **picture-broadcast**, i.e. from one station at a time, but selectable for the whole station group; (4) single moving **picture** 'autonomous', i.e. from any station, regardless of choice at another station; and (5) multiple moving **pictures-split screen**, allowing simultaneous viewing of all participating stations. Each investigating place contained a 14 in. colour monitor, separate cameras for persons and for documents with **user-controlled** zoom, a microphone of kidney-shaped response, a pair of stereo loudspeakers, a service keyboard and a telefax machine.

**Descriptors**

 TELECONFERENCING.

**Classification codes**

B6210P Teleconferencing\*;

B6430J Applications-of-television-systems.

**Keywords**

ISDN; multipoint-teleconference-systems; TV-cameras; colour-TV-monitor; Berlin-Heinrich-Hertz-Institute; **still-picture**; TV-quality; **split-screen-production**; **single-moving-picture**; multiple-moving- **pictures**; loudspeakers; keyboard; telefax-machine; 14-in.

**Treatment codes**

A Application.

**Numerical indexing**

size: 3.6E-01 m.

**Language**

German.

**Publication type**

Journal-paper.

**Publication year**

1989.

**Publication date**

19890100.

**Edition**

1989012.

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**Accession number & update**

0003152771 20070101.

**Title**

Digital still HDTV disc system.

**Source**

IEEE Transactions on **Consumer Electronics**, {IEEE-Trans-Consum-Electron-USA}, Feb. 1988, vol. 34, no. 1, p. 64-71, 2 refs, CODEN: ITCEDA, ISSN: 0098-3063, USA.

**Author(s)**

Takahashi-N.



**Author affiliation**

Takahashi, N., Victor Co. of Japan Ltd., Tokyo, Japan.

**Abstract**

A system is described in which an uncompressed video signal is recorded on a disk and reproduced by a disk player that is connected to a high-definition television (HDTV) processor. Although primarily intended for still **picture** reproduction, this system can generate a display command that adds false **moving-picture** effects to the reproduced **image**. Each **still-picture** frame consists of 1280×1024 active pixels. This system records the luminance signal Y and two color difference signals CW and CN as component codes. The sampling frequency is 49.68 MHz for signal Y, and 24.84 MHz for the color difference signals. These signals are quantized by 8-bit linear conversion. The reproducing system has frame memory capacity equivalent to 2048×2048 pixels, 3.2 times the quantity of data per frame. Each frame memory stores data that continues over two frames and also provides vertical frame scrolls. Since video data can be transmitted in both horizontal and vertical scanning directions, the **picture** can be switched from one frame to another, making a vertical or a horizontal wipe. The remaining video area of the frame memory can store **split-screen** data.

**Descriptors**

 ANALOGUE-DIGITAL-CONVERSION;  DIGITAL-SYSTEMS;  TELEVISION-SYSTEMS;



 VIDEO-AND-AUDIO-DISCS;  VIDEO-RECORDING;  VIDEO-SIGNALS.

**Classification codes**

B6430H Video-recording\*.

**Keywords**

digital-still-HDTV-disc-system; colour-difference-signals; quantisation; uncompressed-video-signal; **still-picture-reproduction**; luminance-signal; 8-bit-linear-conversion; reproducing-system; frame-memory-capacity; video-data; horizontal; vertical; video-area; **split-screen-data**; 1280-pixel; 1310720-pixel; 1024-pixel; 49.68-MHz; 24.84- MHz; 4194304-pixel; 2048-pixel.

**Treatment codes**

P Practical.

**Numerical indexing**

picture size: 1.28E03 pixel.

picture size: 1.31072E06 pixel.

picture size: 1.024E03 pixel.

frequency: 4.968E07 Hz.

frequency: 2.484E07 Hz.

picture size: 4.194304E06 pixel.

picture size: 2.048E03 pixel.

**Language**

English.

**Publication type**

Journal-paper.

**Availability**

CCCC: 0098-3063/88/0200-0064\$01.00.

**Digital object identifier**

10.1109/30.75361.

**Publication year**

1988.

**Publication date**

19880200.

**Edition**

1988014.

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**Inspec - 1898 to date (INZZ)**

**Accession number & update**

0002982558 20070101.

**Title**

Full text search and **image** retrieval.

**Source**

IMC Journal, {IMC-J-USA}, July-Aug. 1987, vol. 23, no. 4, p. 28-30, 0 refs, CODEN: IMGCB7, ISSN: 0019-0012, USA.

**Author(s)**

[Bender-A.](#)

**Author affiliation**

Bender, A., US Nucl. Regulatory Comm., Washington, DC.

**Abstract**

To explore the application of optical disk for its own record management requirements, the NRC, Division of Waste Management, established a pilot system to demonstrate the technology and at the

same time begin the process of converting its own documents into a searchable full text and **image** retrieval system. The NRC optical disk system is a microcomputer based system running in an MS DOS environment which utilizes full text or surrogate search retrieval techniques to provide **user** access to both the ASCII test and the original **image** of the document on a single high resolution (**split screen**) monitor. The optical disk system is a unique record management system which has focused on information retrieval rather than on the conventional approach of archival optical filing systems.

**Descriptors**

 INFORMATION-RETRIEVAL-SYSTEMS;  MICROCOMPUTER-APPLICATIONS;  NUCLEAR-ENGINEERING-COMPUTING;  OPTICAL-DISC-STORAGE;  PUBLIC-ADMINISTRATION;  RADIOACTIVE-WASTE;  RECORDS-MANAGEMENT;  WASTE-DISPOSAL.

**Classification codes**

C5320K Optical-storage\*;  
C7130 Public-administration;  
C7250L Non-bibliographic-retrieval-systems;  
C7470 Nuclear-engineering-computing;  
E0230 Environmental-issues\*;  
E0420 Information-management;  
E3644N Optoelectronics-manufacturing.

**Keywords**

Nuclear-Regulatory-Commission; waste-management; **split-screen-monitor**; optical-disk; searchable-full-text; **image-retrieval-system**; microcomputer-based-system; MS-DOS-environment; surrogate-search-retrieval-techniques; ASCII-test; high-resolution; record-management-system.

**Treatment codes**

A Application.

**Language**

English.

**Publication type**

Journal-paper.

**Publication year**

1987.

**Publication date**

19870700.

**Edition**

1987021.

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**Accession number & update**

0002287155 20070101.

**Title**

Windows display a clearer **picture** (computer graphics).

**Source**

Office Equipment Index, {Off-Equip-Index-UK}, July 1984, no. 212, p. 24-5, 0 refs, CODEN: OEINET, ISSN: 0305-635X, UK.

**Abstract**

Now and again a development takes place in computer software which really makes life easier for the business **user**. Windows are at the heart of the latest generation of microcomputer software, and any company bringing out a new business program is likely to emphasise the extent to which 'windowing' can be achieved. For the end **user**, windows are meant to parallel precisely the executive's desk top.

The **screen** can be **split** into several 'windows', like pieces of paper, which can sit on top of each other, or next to each other according to what is needed at any particular moment. So you might be working on a spreadsheet, for example, when you wish to have a quick glance at last year's sales figures. Press the appropriate keys and the page containing those figures will appear, overlapping with whatever was already on the **screen**.

**Descriptors** COMPUTER-GRAPHICS.**Classification codes**C6130B Graphics-techniques\*;D2020 Design-and-graphics-IT-applications\*.**Keywords**

windows; graphics; software-packages; computer-software; microcomputer-software; business-program.

**Treatment codes**G General-or-review.**Language**

English.

**Publication type**Journal-paper.**Publication year**

1984.

**Publication date**

19840700.

**Edition**

1984009.

**Copyright statement**

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**Inspec - 1898 to date (INZZ)**

**Accession number & update**

0002014926 20070101.

**Title**

Perfect Writer.

**Source**

Practical Computing, {Pract-Comput-UK}, Feb. 1983, vol. 6, no. 2, p. 103-4, 0 refs, CODEN: PRCODZ, ISSN: 0141-5433, UK.

**Author(s)**Bidmead-C.**Abstract**

Perfect Writer embodies a minicomputer text-handling philosophy called Emacs, which was developed in the Massachusetts Institute of Technology. Emacs design has matured over years of use and is full of good things, but inevitably they tend to clutter up the **image** of the product for the first-time **user**. For example, there are over six different ways of moving the cursor; seven completely separate chunks of text can be edited simultaneously; and the **screen** can be **split** if necessary for simultaneous viewing of two different sections of the same text, or sections of two different texts.

**Descriptors** WORD-PROCESSING.**Classification codes**C7100 Business-and-administration\*.**Keywords**

word-processing; Perfect-Writer; text-handling; Emacs.

**Treatment codes**

G General-or-review;

P Practical.

**Language**

English.

**Publication type**

Journal-paper.

**Publication year**

1983.

**Publication date**

19830200.

**Edition**

1983004.

**Copyright statement**

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**Accession number & update**

0001615103 20070101.

**Title**

Stereographic displays of atmospheric model data.

**Conference information**

SIGGRAPH 1980 Conference Proceedings. Seventh Annual Conference on Computer Graphics and Interactive Techniques, Seattle, WA, USA, 14-18 July 1980.

**Source**

Computer Graphics, {Comput-Graph-USA}, July 1980, vol. 14, no. 3, p. 134-9, 7 refs, CODEN: CGRADI, ISSN: 0097-8930, USA.

**Author(s)**

desJardins-M, Hasler-A-F.

**Author affiliation**

desJardins, M., Hasler, A.F., NASA/Goddard Space Flight Center, Greenbelt, MD, USA.

**Abstract**

A system has been developed to display color stereographic time-lapsed sequences of outputs of three-dimensional atmospheric models. Contour lines and wind vectors derived from a model can be overlaid on a geostationary satellite **image** or displayed with map boundaries. The colors of these graphics can be changed interactively to highlight any desired feature or aid in interpreting relationships between parameters. The viewing portion of the system consists of a raster scan **image** display terminal with **split screen** capability and a stereoscopic viewing hood. The **user** of the system can observe model outputs in color and stereo as a function of time and in a manner which permits easy visualization and comparison. The system permits a meteorologist to visualize atmospheric parameters in a three-dimensional representation and correlate these parameters with information derived from satellite observations. This capability can significantly increase the **user's** ability to interact with and understand complex meteorological relationships.

**Descriptors**

COMPUTER-GRAPHICS; METEOROLOGY.

**Classification codes**

C5540 Terminals-and-graphic-displays\*;

C7340 Geophysics-computing.

**Keywords**

atmospheric-model-data; wind-vectors; **geostationary-satellite-image**; map-boundaries; viewing-portion; **raster-scan-image-display-terminal**; **split-screen-capability**; stereoscopic-viewing-hood; meteorological- relationships; contour-lines; computer-graphics.

**Treatment codes**

P Practical.

**Language**

English.

**Publication type**

Conference-paper; Journal-paper.

**Publication year**

1980.

**Publication date**

19800700.

**Edition**

1981001.

**Copyright statement**

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*Ad Hoc Networks, Volume 5, Issue 3, April 2007, Pages 392-412*  
 Guangwei Bai, Kehinde Oladosu and Carey Williamson  
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**Solving the startup problem in Western mobile Internet markets • ARTICLE**  
*Telecommunications Policy, Volume 31, Issue 1, February 2007, Pages 14-30*  
 Jeffrey L. Funk  
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**Flexible and fast security solution for wireless LAN • ARTICLE**  
*Pervasive and Mobile Computing, Volume 3, Issue 1, January 2007, Pages 1-14*  
 Mohamad Badra, Pascal Urien and Ibrahim Hajjeh  
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- ☒ 5. ☐

**A framework for seamless service interworking in ad-hoc networks • ARTICLE**  
*Computer Communications, Volume 29, Issue 16, 12 October 2006, Pages 3277-3294*  
 Linda Källström, Simone Leggio, Jukka Manner, Tommi Mikkonen, Kimmo Raatikainen, Jussi Saarinen, Sanna Suoranta and Antti Ylä-Jääski  
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**Mobile phone based SCADA for industrial automation • ARTICLE**

10/687,417

6. ☐ *ISA Transactions, Volume 45, Issue 1, January 2006, Pages 67-75*  
Engin Ozdemir and Mevlut Karacor  
Abstract

7. ☐ **Wireless mesh networks: a survey • ARTICLE**  
*Computer Networks, Volume 47, Issue 4, 15 March 2005, Pages 445-487*  
Ian F. Akyildiz, Xudong Wang and Weilin Wang  
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*Computer Communications, Volume 27, Issue 18, 1 December 2004, Pages 1825-1839*  
Wassim Itani and Ayman Kayssi  
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9. ☐ **Secure mobile business applications – framework, architecture and implementation • ARTICLE**  
*Information Security Technical Report, Volume 9, Issue 4, December 2004, Pages 6-21*  
Thomas Walter, Laurent Bussard, Yves Roudier, Jochen Haller, Roger Kilian-Kehr, Joachim Posegga and Philip Robinson  
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10. ☐ **A lightweight identity authentication protocol for wireless networks • ARTICLE**  
*Computer Communications, Volume 27, Issue 17, 1 November 2004, Pages 1738-1745*  
Mohamad Badra, Ahmed Serhrouchni and Pascal Urien  
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11. ☐ **Security performance of loaded IEEE 802.11b wireless networks • ARTICLE**  
*Computer Communications, Volume 27, Issue 17, 1 November 2004, Pages 1746-1756*  
Nilufar Baghaei and Ray Hunt  
SummaryPlus | Full Text + Links | PDF (759 K)

12. ☐ **Intermediary infrastructures for the World Wide Web • ARTICLE**  
*Computer Networks, Volume 45, Issue 4, 15 July 2004, Pages 421-447*  
Marios D. Dikaiakos  
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*Computer Communications, Volume 27, Issue 11, 1 July 2004, Pages 1097-1105*  
M. Tian, T. Voigt, T. Naumowicz, H. Ritter and J. Schiller  
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14. ☐ **J2ME application-layer end-to-end security for m-commerce • ARTICLE**  
*Journal of Network and Computer Applications, Volume 27, Issue 1, January 2004, Pages 13-32*  
Wassim Itani and Ayman Kayssi  
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15.

**Efficient validation of mobile transactions in wireless environments • ARTICLE**  
*Journal of Systems and Software, Volume 69, Issues 1-2, 1 January 2004, Pages 183-193*  
 Victor C. S. Lee, Kwok Wa Lam and Tei-Wei Kuo  
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16.

**Brute force web search for wireless devices using mobile agents • ARTICLE**  
*Journal of Systems and Software, Volume 69, Issues 1-2, 1 January 2004, Pages 195-206*  
 Konstantinos G. Zerfirdis and Helen D. Karatza  
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17.

**Video transmission adaptation on mobile devices • ARTICLE**  
*Journal of Systems Architecture, Volume 49, Issues 10-11, November 2003, Pages 475-484*  
 Julien Bourgeois, Emmanuel Mory and Francois Spies  
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18.

**Mobile clinical support system for pediatric emergencies • ARTICLE**  
*Decision Support Systems, Volume 36, Issue 2, October 2003, Pages 161-176*  
 Wojtek Michalowski, Steven Rubin, Roman Slowinski and Szymon Wilk  
[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(637 K\)](#)

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19.

**Using reordering technique for mobile transaction management in broadcast environments • ARTICLE**  
*Data & Knowledge Engineering, Volume 45, Issue 1, April 2003, Pages 79-100*  
 SungSuk Kim, SangKeun Lee and Chong-Sun Hwang  
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20.

**Active middleware for Internet Video on Demand: the QoS-aware routing solution in ubiQoS • ARTICLE**  
*Microprocessors and Microsystems, Volume 27, Issue 2, 15 March 2003, Pages 73-83*  
 Paolo Bellavista and Antonio Corradi  
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21.

**Access methods for handling the updates of broadcast data in wireless mobile computing • ARTICLE**  
*Computer Standards & Interfaces, Volume 24, Issue 3, July 2002, Pages 207-226*  
 P. C. Saxena and I. J. Arora  
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<input type="checkbox"/>	L74	ESCHBACH-REINER.in.	163
<input type="checkbox"/>	L73	(153 or 154 or 155 or 156 or 157 or 158 or 159 or 160 or 161 or 162 or 163 or 164 or 165 or 166 or L67) and ((split-bar or (split near bar) or splitbar) with (image or images or picture or pictures or photo or photos or photograph or photographs))	1
<input type="checkbox"/>	L72	(153 or 154 or 155 or 156 or 157 or 158 or 159 or 160 or 161 or 162 or 163 or 164 or 165 or 166 or L67) and ((split-bar or (split near bar) or splitbar) near (image or images or picture or pictures or photo or photos or photograph or photographs))	1
<input type="checkbox"/>	L71	(153 or 154 or 155 or 156 or 157 or 158 or 159 or 160 or 161 or 162 or 163 or 164 or 165 or 166 or L67) and ((split-bar or (split near bar) or splitbar) near (document or documents))	0
<input type="checkbox"/>	L70	(153 or 154 or 155 or 156 or 157 or 158 or 159 or 160 or 161 or 162 or 163 or 164 or 165 or 166 or L67) and ((split-bar or (split near bar) or splitbar) with (document or documents))	0
<input type="checkbox"/>	L69	(153 or 154 or 155 or 156 or 157 or 158 or 159 or 160 or 161 or 162 or 163 or 164 or 165 or 166 or L67) and ((split-bar or (split near bar) or splitbar) with (client\$ or user\$ or customer\$ or consumer\$ or server\$))	10
<input type="checkbox"/>	L68	(153 or 154 or 155 or 156 or 157 or 158 or 159 or 160 or 161 or 162 or 163 or 164 or 165 or 166 or L67) and ((split-bar or (split near bar) or splitbar) near (client\$ or user\$ or customer\$ or consumer\$ or server\$))	4
<input type="checkbox"/>	L67	715/804.ccls.	481
<input type="checkbox"/>	L66	715/803.ccls.	224
<input type="checkbox"/>	L65	715/830.ccls.	64
<input type="checkbox"/>	L64	715/839.ccls.	358
<input type="checkbox"/>	L63	715/800.ccls.	175
<input type="checkbox"/>	L62	715/777.ccls.	130
<input type="checkbox"/>	L61	715/786.ccls.	188
<input type="checkbox"/>	L60	715/784.ccls.	283
<input type="checkbox"/>	L59	715/781.ccls.	671
<input type="checkbox"/>	L58	715/526.ccls.	688

10/687,417

<input type="checkbox"/>	L57	715/500.ccls.	1326
<input type="checkbox"/>	L56	709/203.ccls.	7267
<input type="checkbox"/>	L55	707/104.1.ccls.	5866
<input type="checkbox"/>	L54	707/102.ccls.	4748
<input type="checkbox"/>	L53	707/10.ccls.	6677
<input type="checkbox"/>	L52	(L42 or L51) and (server with document with (view\$ or display\$))	8
<input type="checkbox"/>	L51	(L43 or L44 or L45 or L46 or L47 or L48 or L49 or L50) and ((split\$ or separat\$ or composite) near image\$)	21
<input type="checkbox"/>	L50	(customer\$ adj1 side).ti.	132
<input type="checkbox"/>	L49	(customer\$ adj1 side).ab.	1222
<input type="checkbox"/>	L48	(consumer\$ adj1 side).ab.	352
<input type="checkbox"/>	L47	(consumer\$ adj1 side).ti.	37
<input type="checkbox"/>	L46	(client\$ adj1 side).ti.	569
<input type="checkbox"/>	L45	(client\$ adj1 side).ab.	3108
<input type="checkbox"/>	L44	(user\$ adj1 side).ab.	4961
<input type="checkbox"/>	L43	(user\$ adj1 side).ti.	375
<input type="checkbox"/>	L42	(L28 or L29 or L30 or L31 or L32 or L33 or L34 or L35 or L36 or L37) and ((split\$ or separat\$ or composite) near image\$)	100
<input type="checkbox"/>	L41	(L28 or L29 or L30 or L31 or L32 or L33 or L34 or L35 or L36 or L37) and L40	1
<input type="checkbox"/>	L40	split-bar	17
<input type="checkbox"/>	L39	(document with (view\$ or display\$ or imag\$) with server\$ with split-bar)	1
<input type="checkbox"/>	L38	(L28 or L29 or L30 or L31 or L32 or L33 or L34 or L35 or L36 or L37) and (document with (view\$ or display\$ or imag\$) with server\$ with split-bar)	0
<input type="checkbox"/>	L37	(client adj1 device\$).ti.	1580
<input type="checkbox"/>	L36	(client adj1 device\$).ab.	6266
<input type="checkbox"/>	L35	(wireless adj1 device\$).ti.	3216
<input type="checkbox"/>	L34	(wireless adj1 device\$).tti.	0
<input type="checkbox"/>	L33	(wireless adj1 device\$).ab.	7335
<input type="checkbox"/>	L32	(handheld adj1 device\$).ab.	2847
<input type="checkbox"/>	L31	(handheld adj1 device\$).ti.	760
<input type="checkbox"/>	L30	(handheld adj1 device\$).ti.	760
<input type="checkbox"/>	L29	(pda or (personal adj1 digital adj1 assistant)).ab.	54605
<input type="checkbox"/>	L28	(pda or (personal adj1 digital adj1 assistant)).ti.	9370
<input type="checkbox"/>	L27	L26 and (pda or (personal adj1 digital adj1 assistant)).ti.	0
<input type="checkbox"/>	L26	20050086259.pn.	2
<input type="checkbox"/>	L25	L23 and (client adj1 side).ab.	31
<input type="checkbox"/>	L24	L23 and (client adj1 side).ti.	12
<input type="checkbox"/>	L23	(server near (view\$ or display\$ or interfac\$ or imag\$) near client\$)	1272

<input type="checkbox"/>	L22 (image near anywhere near server\$)	0
	<i>DB=PGPB,USPT,USOC; PLUR=NO; OP=OR</i>	
<input type="checkbox"/>	L21 ((split-bar or (split near bar) or (split adj1 bar)) with server\$)	1
<input type="checkbox"/>	L20 ((split-bar or (split near bar) or (split adj1 bar)) near server\$)	0
<input type="checkbox"/>	L19 ((split-bar or (split near bar) or (split adj1 bar)) near ((client adj1 side) or client-side or clientside))	0
<input type="checkbox"/>	L18 ((split-bar or (split near bar) or (split adj1 bar)) with ((client adj1 side) or client-side or clientside))	0
<input type="checkbox"/>	L17 ((split-bar or (split near bar) or (split adj1 bar)) with ((client adj1 side) or client-side or clientside) with server\$)	0
<input type="checkbox"/>	L16 L15 and server\$	375
<input type="checkbox"/>	L15 L14 and (pda or (personal adj1 digital adj1 assistant) or phone\$ or handheld or wireless)	381
<input type="checkbox"/>	L14 L7 and ((client adj1 side) or client-side or clientside)	630
<input type="checkbox"/>	L13 (L11 or L12) and L8	1
<input type="checkbox"/>	L12 L10 and ((client adj1 side) or client-side or clientside).ti.	10
<input type="checkbox"/>	L11 L10 and ((client adj1 side) or client-side or clientside).ab.	68
<input type="checkbox"/>	L10 L7 and (pda or (personal adj1 digital adj1 assistant) or phone\$ or handheld or wireless)	381
<input type="checkbox"/>	L9 L7 and L8	1
<input type="checkbox"/>	L8 (split-bar or (split near bar) or (split adj1 bar))	507
<input type="checkbox"/>	L7 (((client adj1 side) or client-side or clientside) near (view\$ or display\$ or interfac\$))	630
	<i>DB=PGPB; PLUR=NO; OP=OR</i>	
<input type="checkbox"/>	L6 20040030741.pn.	1
	<i>DB=PGPB,USPT,USOC; PLUR=NO; OP=OR</i>	
<input type="checkbox"/>	L5 L4 and server\$	1
<input type="checkbox"/>	L4 (L2 or L3) and (client\$ or consumer\$ or customer\$ or user\$)	6
<input type="checkbox"/>	L3 (split-bar\$ or (split adj1 bar\$)).ab.	13
<input type="checkbox"/>	L2 (split-bar\$ or (split adj1 bar\$)).ti.	5
	<i>DB=PGPB; PLUR=NO; OP=OR</i>	
<input type="checkbox"/>	L1 20050234995.pn.	1

END OF SEARCH HISTORY